

Weatherbird II June 25th - July 1st, 2011

Research Cruise - Ocean Acidification

June 25th

- departure at 7:53 AM.
- looks like there are two transects (Northern & Southern); each with 5 water sample sites
- I'll also be helping Sue filter water to look at particulates & nitrogen.
- Flow through system turned on around Egmont Key (10AM)
 - seems to be working (10:17AM)
 - got the water balanced between the two
- The Sonde is started too (10:20AM)

Time	Station	ISO3	Coordinates	bottle	depth
1300	WB06-1		(27° 32.2, 83° 01.0)	1 Top	6
	WB06-2			3 Mid	10.9
	WB06-3			2 Bot	14

Isotore bottle

WB06-1:50	11:28
WB06-2:50	1350
WB06-3:50	1600

June 25-26

Station⁵¹ 06 (27° 28.3, 83° 18.8)

Time: 1615	bottle	depth
WB06-4	5 TOP	5
WB06-5	3 Mid	15
WB06-6	1 bot	30

Station⁵¹ 12 (27° 20.1, 83° 53.0)

Time: 2235	bottle	depth
WB06-7	10 Top	5m
WB06-8	4 Mid	30m
WB06-9	3 bot	50m

June 26thStation⁵¹ 18 (27° 11.7, 84° 27.6)

Time 8:20	bottle	depth
WB06-10	10 TOP	10m
WB06-11	5 Mid Mid	70m
WB06-12	2 bot	143m
WB06- 12 Dup	2 bot	143m

850 Saw the Sonde start logging,
restarted w/ new file

Jun 26

920 Sonde logger stopped
replaced batteries in
650 MDS (logger)

June 26

950 Sonde logging stopped

1015 changed sonde batteries

→ won't connect

Seems to run if the MDS

Powers it..

1043 put the batteries in
backwards, ~~then~~ fixed; check
sonde in ~ 20min

- The flow through for sonde bucket
keeps needing adjustment

1056 The pH & CO₂ flow throughs
seem good.

- pH around 8

- CO₂ ~~380~~ 380 (ppm?)

→ CO₂ flow through not setting
is much water as pH
seems to vary like sonde
→ turned up flow a little

1104 second sonde still logging!

1153 still logging!

WB06-13

surface sample

1307

WB II June 11

June 26

Site ST24

Time ~~1900~~ 1900

	Bottle		Target depth
WB06-14	11	TOP	10m 10m
WB06-15	4	Mid	400m
WB06-16	1 X	Bot	825m
WB06-17	7	Cmax	75m
WB06-18	8 6	C _{top}	100m ⁶⁰
WB06-19	6	C _{bot}	100m
— Isotope			
WB06-4 iso	11	TOP	10m
WB06-5 iso	4	Mid	400m
WB06-6 iso	1 X	Bot	825
WB06-7 iso	100m 8	C _{top} ^{cont}	100m ⁶⁰
WB06-8 iso	7	Cmax	75m
WB06-9 iso	60m 6	C _{top} ^{Bot}	100m
Broken WB06-10 iso	2		150m
WB06-11 iso	3		600m
WB06-12 iso	5		300m
WB06-13 iso	2 X		25m 160

June 27

WB06 ~~20~~ 20 718 surface

1630 Been on same coring station
all day; will take sample
when moving.

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WB II June

June 27-28

1721 surface samples (N27 57.949, W86 01.422)

WB06-21 29.26°C

WB06-15 iso 35.22 salinity

1744 I Think the sonde
bucket has a leak, water keeps
spilling off the table
→ moved into the sink
hopefully that'll cure it.

2335 surface sample (N28° 03.916, W85.55670)

WB06-22 28.02°C, 35.02 sal

June 28

650 sonde logger powered off, &
won't turn on

Station NT07 Time: 650 (28°10.4, 85°43.5)

WB06-23	12	TOP	surf
WB06-24	3	mid	300m
WB06-24 dup	3	mid	300m
WB06-25	2	Bot	400m
WB06-26	12	C _{top}	surf
WB06-27	8	Cmax	25m
WB06-28	6	C _{bot}	50m

Temp 28.92°C
34.43 sal

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WBTI June '11

June 28

750 • replaced sonde logger batteries
→ had the logger powering the sonde, unchecked that option this time
• Created new data file; Jun 28

1037 Surface Sample (N 28° 13.604, W 85° 32.883)
WBOG-29 28.94°C 33.55 sal

1712 Surface Sample (N 28° 31.496, W 85° 12.421)
WBOG-30 28.88°C 33.55 sal

Station NT13

Arrival Time ~~534~~ 1734 CTD up: 1745
Arrival Temp 24.43°C Sample Time: 1835
Arrival Sal 33.30

	bottle		pick depth
WBOG-31	11	TOP	5m
WBOG-32	4	Mid	75m
WBOG-33	2	Bot	125m

Sample process
Temp 24.23
Sal 33.39

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WBTI June

June 29

430 NT19 arrive
WBOG-34
WBOG-35
WBOG-36
WBOG-36dup

9	10	TOP	5m
7		Mid	15m
2		Bot	30m
2		Bot	30m

CTD up: 0144
Sample Process 0503
Temp 24.86°C
Sal 33.79

0842 Sonde logger → new file Jun 29

1036 Isotore Sample Temp: 28.73°C
WBOG-17iso Sal: 34.22
Surface N 29° 05.360, W 84° 17.371

Station NT5

CTD in: 1105
Temp: 28.73°C
Sal: 34.75

WBOG-38	1	TOP Bot	22
WBOG-39	5	Mid	15
WBOG-40	9	Bot TOP Surf	

Smoke from grill blowing over
Bottles some

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WBT June '11

June 29

1440 Surface Sample WB06-41
 (N 29° 11.899, W 84° 06.066)
 Temp 29.49°C
 Salinity 35.41

Station NT31

Arrival 1736 Sample Process: 1745
 29.7°C, 35.24 sal

	bottle	Temp. depth
WB06-42	10 TOP	surf
WB06-43	8 MID	5m
WB06-44	2 BOT	10m

2015 Surface Sample
 Temp 29.68°C, Sal 35.07
 WB06-45

2318 Surface Samples (N 28° ^{58.518} 58.518, W 83° 31.873)
 Temp 29.56 34.95 sal
 WB06-46 iso
 WB06-46

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WBT June '11

June 30

0305 Surface Samples
 Loc: N 28° 28.989, W 83° 16.919
 Temp: 29.21°C
 Sal: 35.63

WB06-20:50
 WB06-47

0650 Surface Samples
 Loc N 27° 58.076, W 83° 01.659
 Temp 29.09°C
 Sal 35.94

WB06-21:50
 WB06-48
 WB06-48 dup

803 Surface Sample
 WB06-22:50
 Loc N 27° 49.010, W 82° 56.150
 Temp 28.60°C, Sal 35.78

851 Surface Sample
 Loc N 27° 43.574, W 82° 53.153
 Temp, 28.67, Sal 35.7
 WB06-23:50, WB06-49

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WBII June '11

June 30

1006 Surface Samples

Loc N 27° 36.653, W 82° 46.332

Temp: 28.65°C, Sal 35.73

WB06-24iso

WB06-50

1031 Surface Samples

Loc N 27° 36.687, W 82° 41.540

Temp 28.63°C

Salinity 35.65

WB06-25iso

WB06-51

1058 Shutdown

turned off all flowthrough

Exported / saved / backed up

~~SA~~ SAMI data files

Turned off sonde logger